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We Claim:

- 1. A method of detecting the presence of a target PS118 polynucleotide in a test sample, comprising:
 - contacting said test sample with at least one PS118-specific polynucleatide or complement thereof; and
- (b) detecting the presence of said target PS118 polynucleotide in the test sample, wherein said PS118-specific polynucleotide has at least 50% identity with a polynucleotide selected from the group consisting SEQUENCE ID NOS 1-10, and fragments or complements thereof.
 - 2. The method of claim 1, wherein said target PS118 polynucleotide is attached to a solid phase prior to performing step (a).
 - 3. A method for detecting mRNA of PS118 in a test sample, comprising:
 - (a) performing reverse transcription with at least one primer in order to produce cDNA;
 - (b) amplifying the CDNA obtained from step (a) using PS118 oligonucleotides as sense and antisense primers to obtain PS118 amplicon; and
 - (c) detecting the presence of said PS118 amplicon in the test sample, wherein the PS118 oligonucleotides utilized in steps (a) and (b) have at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NOS 1-10, and fragments or complements thereof.
 - 4. The method of claim 3, wherein said test sample is reacted with a solid phase prior to performing one of steps (a), (b), or (c).
- The method of claim 3, wherein said detection step comprises utilizing a detectable label capable of generating a measurable signal.
 - 6. A method of detecting a target PS118 polynucleotide in a test sample suspected of containing said target, comprising:

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- contacting said test sample with at least one PS118 oligonucleotide as (a) a sense primer and with at least one PS118 oligonucleotide as an anti-sense primer and amplifying to obtain a first stage reaction product;
- contacting said first stage reaction product with at least one other PS118 oligonucleotide to obtain a second stage reaction product, with the proviso that the other PS118 oligonucleotide is located 3' to the PS118 oligonucleotides utilized in step (a) and is complementary to said first stage reaction product; and
- detecting said second stage reaction product as an indication of the (c) presence of the target PS118 polynucleotide, wherein the PS118 oligonucleotides utilized in steps (a) and (b) have at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NOS 1-10, and fragments or complements thereof.
- The method of claim 6, wherein said test sample is reacted with a 7. solid phase prior to performing one of steps (a), (b), or (c).
- 8. The method of claim 6, wherein said detection step comprises utilizing a detectable label capable of generating a measurable signal.
- The method of claim 8, wherein said detectable label is reacted to a 9. solid phase.
- A test kit useful for detecting PS1\8 polynucleotide in a test sample, 10. comprising a container containing at least one PS11% polynucleotide having at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NOS 1-10, and fragments or complements thereof.
- A purified polynucleotide or fragment thereof derived from a PS118 11. gene, wherein said polynucleotide is capable of selectively hybridizing to the nucleic acid of said PS118 gene and has at least 50% identity with a polyhucleotide selected from the group consisting of (a) SEQUENCE ID NOS 1-4, SEQUENCE ID NOS 7-10, and complements thereof, and (b) fragments of SEQUENCE ID NOS 1-8.
- The purified polynucleotide of claim 11, wherein said polynucleotide 12. 35 is produced by recombinant techniques.

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13. The purified polynucleotide of claim 11, wherein said polynucleotide is produced by synthetic techniques.

- 5. 14. The purified polynucleotide of claim 11, wherein said polynucleotide comprises a sequence encoding at least one PS118 epitope.
- that includes an open reading frame derived from PS118 operably linked to a control sequence compatible with a desired host, wherein said nucleic acid sequence has at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NOS 1-10, and fragments or complements thereof.
 - 16. A cell transfected with the recombinant expression system of claim
 - 17. A PS118 polypeptide having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.
 - 18. The polypeptide of claim 17, wherein said polypeptide is produced by recombinant techniques.
- 25 19. The polypeptide of claim 17, wherein said polypeptide is produced by synthetic techniques.
 - 20. An antibody which specifically binds to at least one PS118 epitope, wherein PS118 epitope is derived from an amino acid sequence having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.
 - 21. An assay kit for determining the presence of PS118 antigen or anti-35 PS118 antibody in a test sample, comprising a container containing a PS118

22. The assay kit of claim 21, wherein said polypeptide is attached to a solid phase.

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23. An assay kit for determining the presence of PS118 antigen in a test sample, comprising a container containing an antibody which specifically binds to a PS118 antigen that comprises at least one PS118 epitope.

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24. The kit of claim 23, wherein said antibody is attached to a solid phase.

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25. A method for producing a polypeptide comprising at least one PS118 epitope, said method comprising incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein said polypeptide comprises an amino acid sequence having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.

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26. A method for detecting PS118 antigen in a test sample suspected of containing said PS118 antigen, comprising:

(a) contacting the test sample with an antibody or fragment thereof which specifically binds to at least one epitope of a PSII8 antigen selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof, wherein said contacting is carried out for a time and under conditions sufficient for

the formation of antibody/antigen complexes; and

(b) detecting said complexes.

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27. The method of claim 26, wherein said antibody is attached to a solid phase.

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- 28. A method for detecting the presence of antibodies specific for a P\$118 antigen in a test sample suspected of containing such antibodies, said method comprising:
- contacting the test sample with a PS118 polypeptide, wherein said 5 (a) PS118 polypeptide contains at least one PS118 epitope derived from an amino acid sequence of fragment thereof having at least 50% identity with an amino acid sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof, and further wherein said contacting 10 is carried out for a time and under conditions sufficient to allow antigen/antibody complexes to form; and
 - detecting said complexes. (b)
- 29. The method of Naim 28, wherein said PS118 polypeptide is attached 15 to a solid phase.
 - A cell transfected with a nucleix acid sequence encoding at least one 30. PS118 epitope, wherein said nucleic acid sequence is selected from the group consisting of SEQUENCE ID NOS 1-10, and fragments or complements thereof.
 - A method for producing antibodies which specifically bind to PS118 31. antigen, comprising administering to an individual an isolated immunogenic polypeptide or fragment thereof in an amount sufficient to elicit an immune response, wherein said immunogenic polypeptide comprises at least one PS118 epitope and has at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.
- 30 A method for producing antibodies which specifically bind to PS118 32. antigen, comprising administering to an individual a plasmid comprising a sequence which encodes at least one PS118 epitope derived from a polypeptide having an amino acid sequence selected from the group consisting of SEQUENCE IDNO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.
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- 33. A composition of matter comprising a PS118 polynucleotide or fragment thereof, wherein said polynucleotide has at least 50% identity with a polynucleotide selected from the group consisting of (a) SEQUENCE ID NOS 1-4, SEQUENCE ID NOS 7-10, and complements thereof, and (b) fragments of SEQUENCE ID NOS 1-8.
- 34. A composition of matter comprising a polypeptide containing at least one PS118 epitope, wherein said polypeptide has at least 50% identity with a sequence selected from the group consisting of SEQUENCE ID NO 27, SEQUENCE ID NO 28, SEQUENCE ID NO 29, SEQUENCE ID NO 30, SEQUENCE ID NO 31, and fragments thereof.
- 35. The test kit of claim 10 further comprising a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.
- 36. The assay kit of claim 21 further comprising a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.
- 37. The test kit of claim 23 further comprising a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.
- 38. A gene or fragment thereof which codes for a PS118 protein which comprises an amino acid sequence having at least 50% identity to SEQUENCE ID NO 27.
- 39. A gene or fragment thereof comprising DNA having at least 50% identity with SEQUENCE ID NO 9 or SEQUENCE ID NO 10.